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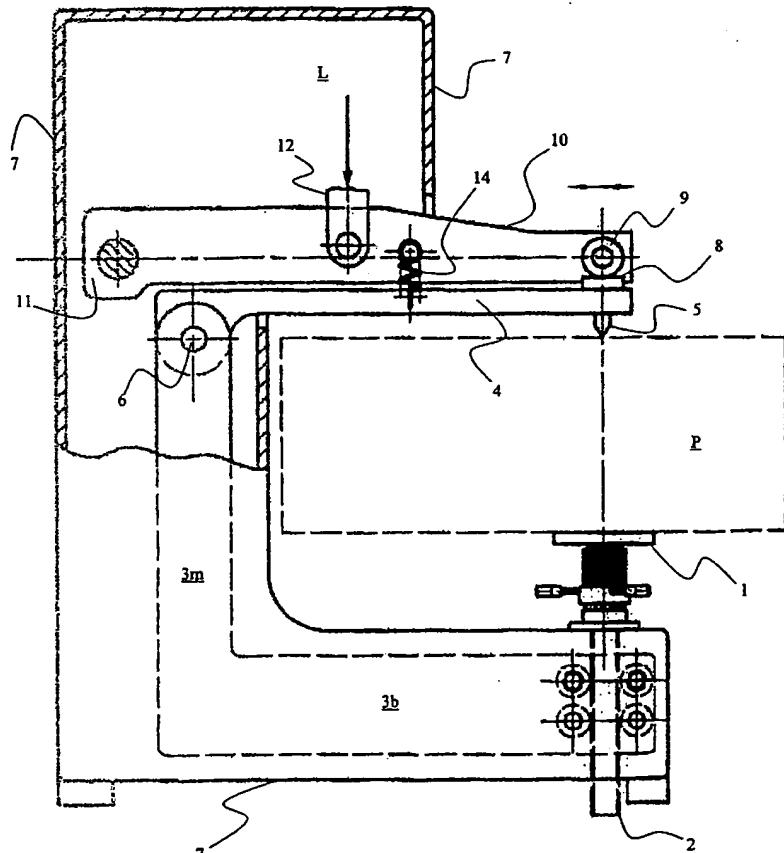
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(54) Title: HARDNESS TESTER WITH A LOADING STRUCTURE OF THE INDENTER INDEPENDENT OF THE STRESS FRAME CONNECTING THE INDENTER TO THE ANVIL



(57) Abstract: A hardness tester of a relatively large "cantilevering" and/or designed for permitting application of relatively large loads to the indenter may be constructed in a much slimmer and lighter manner by employing a loading mechanism based on the use of a second or auxiliary loading arm pivotally anchored to the frame of the tester and therefore completely independent of the stress structure of reference contained in the frame of the tester, which mechanically connects the anvil, on which the test object is placed, to the indenter. The load, applied to said second auxiliary arm is transmitted to the indenter carrying arm of the reference stress structure of the tester by unrestrained abutment of a rolling bearing solidly mounted on one of the two arms on a surface of the other arm. Along the trajectory of movement of the tip of the indenter toward the anvil.

WO 2005/031314 A1

WO 2005/031314 A1



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